

# **Oil Sample Analysis Report**

**Marine Safety Detachment Santa Barbara  
Case / Activity Number 5130455**

**Marine Safety Laboratory  
Case Number 16-036**



U.S. Department of  
Homeland Security

**United States  
Coast Guard**

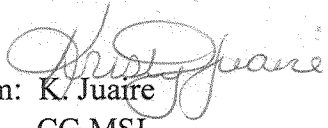


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16450  
21 Dec 2015

## MEMORANDUM

  
From: K. Juaire  
CG MSL

To: CG MSD Santa Barbara

Subj: OIL SAMPLE ANALYSIS REPORT, MSL CASE NUMBER 16-036  
UNIT CASE / ACTIVITY NUMBER 5130455

1. The laboratory analysis of this case has been completed and our report is forwarded. The technical data supporting the report (spectrograms and chromatograms) have been archived at our facility and are available upon request. We will maintain the oil samples in refrigerated storage pending final case disposition.
2. Questions concerning this report or the analytical methods used should be directed to the Supervisor of Analysis, Kristy Juaire.

#

Enclosure: (1) MSL Report 16-036

**United States Coast Guard  
Marine Safety Laboratory  
Oil Sample Analysis Report  
16-036**

**Requestor:** Marine Safety Detachment Santa Barbara

**Unit Case/Activity Number:** 5130455

**Received:** 16-Dec-15      **Via:** Federal Express      5429 6622 4300/4295/4284/4273

**Number Of Samples:** 25

**Lab ID for Spills:** 1 through 25

**Lab ID for Sources:** n/a

**Lab ID for Background:** n/a

**Analysis Methods:**

- ☒ GAS CHROMATOGRAPHY (GC)
- ☒ GAS CHROMATOGRAPHY-MASS SPECTROMETRY (GC-MS)
- ☐ INFRARED SPECTROSCOPY (IR)

**Laboratory's Conclusion (as explained below):NON-MATCH**

**SPECIAL INSTRUCTIONS:** Compare to sample ECN 5130455-BCW-007 (15-165-1).

**RESULTS:**

1. Samples 16-036-1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 18, 19, 20, 21, 22, 23, 24, and 25 were specified to be representative of spilled oil. Analysis indicates these samples contain moderately to severely weathered crude oil. Non-petroleum contamination is present in samples 16-036-2, 4, 7, 11, 16, 18, 19, 20, 21, 22, 23, and 24.
2. Suspected source sample 15-165-1 contains crude oil with characteristics different from those of spill samples 16-036-1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 18, 19, 20, 21, 22, 23, 24, and 25. Differences are not attributable to weathering or non-petroleum contamination.
3. Sample 16-036-17 was specified to be representative of spilled oil. This sample does not contain a quantity of petroleum oil detectable by the analysis conducted.

**CONCLUSIONS:**

1. Suspected source sample 15-165-1 and spill samples 16-036-1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 18, 19, 20, 21, 22, 23, 24, and 25 are not derived from a common source of petroleum oil.
2. Sample 16-036-17 does not contain a quantity of petroleum oil detectable by the analysis conducted.

**SUPERVISOR OF ANALYSIS**

K. JUAIRE

**DATE**

21-Dec-15

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**United States Coast Guard  
Marine Safety Laboratory**

**Oil Spill Identification Analysis  
Cost Recovery Documentation**

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**Laboratory Case Number:** 16-036

**Requestor:** Marine Safety Detachment Santa Barbara

**Unit Case/Activity Number:** 5130455

**Number of Samples:** 27

**Cost Per Sample Prepared:** \$20.00

**Total Costs of Sample Preparation:** \$540.00

**Number of Analyses:** 50

**Cost Per Sample Analyzed:** \$86.00

**Total Costs for Analysis:** \$4,300.00

**TOTAL COSTS:** \$4,840.00

This documentation is provided for purposes of Phase IV - Documentation and  
Cost Recovery under the National Oil and Hazardous Substances Pollution  
Contingency Plan (40 CFR Part 300)

**Signature:**



**Date:** 21 Dec 15

**United States Coast Guard  
Marine Safety Laboratory Sample  
Check-In Log**

**MSL Case/Activity Number: 16-036**

**Requestor:** Marine Safety Detachment Santa Barbar    **Unit Case Number:** 5130455

**Federal Project Number:** A15017

**Delivery Method:** Federal Express

**Received Date:** 16 Dec 15

**Delivery Number:** 5429 6622 4300/4295/4284/4273

**Priority:** No

**Rush:** No

**Comparison:** Yes

Lab ID 16-036	Sample Descriptions from Sample Jars		Spill	Source
1	01	5130455-JMW-001 SB-N-S002-001-D15/1015 COAL OIL POINT 07DEC15 1015	<input checked="" type="checkbox"/>	<input type="checkbox"/>
2	02	5130455-JMW-002 SB-N-S002-002-D15/1055 ELLWOOD BEACH 07DEC15 1055	<input checked="" type="checkbox"/>	<input type="checkbox"/>
3	03	5130455-JMW-003 SB-N-S002-003-D15/1105 ELLWOOD BEACH 07DEC15 1105	<input checked="" type="checkbox"/>	<input type="checkbox"/>
4	04	5130455-JMW-004 SB-M-S002-001-D15/1145 BACARA / HASKELS BEACH 07DEC15 1145	<input checked="" type="checkbox"/>	<input type="checkbox"/>
5	05	5130455-JMW-005 SB-M-S002-002-D15/1315 EAGLE CREEK 07DEC15 1315	<input checked="" type="checkbox"/>	<input type="checkbox"/>
6	06	5130455-JMW-006 SB-M-S002-003-D15/1325 EAGLE CREEK 07DEC15 1325	<input checked="" type="checkbox"/>	<input type="checkbox"/>
7	07	5130455-JMW-007 SB-I-S005-001-D15/1415 TAJIGUAS 07DEC15 1415	<input checked="" type="checkbox"/>	<input type="checkbox"/>
8	08	5130455-JMW-008 SB-J-S001-001-D15/1435 VEVADITO BEACH 07DEC15 1435	<input checked="" type="checkbox"/>	<input type="checkbox"/>
9	09	5130455-JMW-009 SB-K-S001-001-D15/1455 EL CAPITAN 07DEC15 1455	<input checked="" type="checkbox"/>	<input type="checkbox"/>
10	10	5130455-JMW-010 SB-M-S001-001-D15/1005 NAPLES 08DEC15 1005	<input checked="" type="checkbox"/>	<input type="checkbox"/>

**Remarks:** Compare to 15-165.

**Samples checked in by:** YN3 JAMIE YINGLING *Jamie Yingling*    **Date:** 16 Dec 15

**Sample Custodian:** MST1 ALEXANDER SHUNDA *AS*    **Date:** 21 DEC 15

**Supervisor of Analysis:** K. JUAIRE *Kristy Juare*    **Date:** 21 Dec 15

**United States Coast Guard  
Marine Safety Laboratory  
Check-In Log**

**MSL Case Number: 16-036**

Lab Number 16-036	Sample Descriptions from Sample Jars		Spill	Source
11	11	5130455-JMW-011 SB-L-S002-001-D15/1055 DOS PUEBLOS 08DEC15 1055	<input checked="" type="checkbox"/>	<input type="checkbox"/>
12	12	5130455-JMW-012 SB-L-S002-002-D15/1105 DOS PUEBLOS 08DEC15 1105	<input checked="" type="checkbox"/>	<input type="checkbox"/>
13	13	5130455-JMW-013 SB-L-S002-003-D15/1115 DOS PUEBLOS 08DEC15 1115	<input checked="" type="checkbox"/>	<input type="checkbox"/>
14	14	5130455-JMW-014 SB-L-S001-001-D15/1205 EDWARDS POINT 08DEC15 1205	<input checked="" type="checkbox"/>	<input type="checkbox"/>
15	15	5130455-JMW-015 SB-L-S001-002-D15/1215 EDWARDS POINT 08DEC15 1215	<input checked="" type="checkbox"/>	<input type="checkbox"/>
16	16	5130455-JMW-016 SB-L-S001-003-D15/1225 EDWARDS POINT 08DEC15 1225	<input checked="" type="checkbox"/>	<input type="checkbox"/>
17	17	5130455-JMW-017 SB-J-S001-001-D15/1405 REFUGIO 08DEC15 1405	<input checked="" type="checkbox"/>	<input type="checkbox"/>
18	001	5130455-CMM-001 SB-T-S004-1-D15 07DEC15 1044	<input checked="" type="checkbox"/>	<input type="checkbox"/>
19	002	5130455-CMM-002 SB-S-S001-2-D15 07DEC15 1141	<input checked="" type="checkbox"/>	<input type="checkbox"/>
20	003	5130455-CMM-003 SB-S-S002-3-D15 07DEC15 1229	<input checked="" type="checkbox"/>	<input type="checkbox"/>

Samples checked in by: YN3 JAMIE YINGLING

Date: 16 Dec 15

Sample Custodian: MST1 ALEXANDER SHUNDA

Date: 21 DEC 15

Supervisor of Analysis: K. JUAIRE

Date: 31 Dec 15

**United States Coast Guard  
Marine Safety Laboratory  
Check-In Log**

**MSL Case Number: 16-036**

Lab Number 16-036	Sample Descriptions from Sample Jars		Spill	Source
21	004	5130455-CMM-004 SB-R-S003-4-D15 07DEC15 1340	<input checked="" type="checkbox"/>	<input type="checkbox"/>
22	005	5130455-CMM-005 SB-Q-S003-5-D15 07DEC15 1425	<input checked="" type="checkbox"/>	<input type="checkbox"/>
23	006	5130455-CMM-006 SB-P-S002-6-D15 07DEC15 1506	<input checked="" type="checkbox"/>	<input type="checkbox"/>
24	007	5130455-CMM-007 SB-O-S001-7-D15 08DEC15 1339	<input checked="" type="checkbox"/>	<input type="checkbox"/>
25	008	5130455-CMM-008 SB-N-S002-8-D15 08DEC15 1412	<input checked="" type="checkbox"/>	<input type="checkbox"/>
26			<input type="checkbox"/>	<input type="checkbox"/>
27			<input type="checkbox"/>	<input type="checkbox"/>
28			<input type="checkbox"/>	<input type="checkbox"/>
29			<input type="checkbox"/>	<input type="checkbox"/>
30			<input type="checkbox"/>	<input type="checkbox"/>

Samples checked in by: YN3 JAMIE YINGLING *Jamie Yingling* Date: 16 Dec 15

Sample Custodian: MST1 ALEXANDER SHUNDA *Alex* Date: 21 DEC 15

Supervisor of Analysis: K. JUAIRE *Kristy Juarez* Date: 21 Dec 15

United States Coast Guard  
Marine Safety Laboratory Sample  
Check-In Log

MSL Case/Activity Number: 15-165

Requestor: Marine Safety Detachment Santa Barbar Unit Case Number: 5130455

Federal Project Number: A15017

Delivery Method: Federal Express

Received Date: 27 May 15

Delivery Number: 5429 6622 3667

Priority: No

Rush: Yes

Comparison: Yes

Lab ID 15-165	Sample Descriptions from Sample Jars		Spill	Source
1	01	5130455-BCW-007 PIPELINE SOURCE OIL 22MAY15 1011	<input type="checkbox"/>	<input checked="" type="checkbox"/>
2			<input type="checkbox"/>	<input type="checkbox"/>
3			<input type="checkbox"/>	<input type="checkbox"/>
4			<input type="checkbox"/>	<input type="checkbox"/>
5			<input type="checkbox"/>	<input type="checkbox"/>
6			<input type="checkbox"/>	<input type="checkbox"/>
7			<input type="checkbox"/>	<input type="checkbox"/>
8			<input type="checkbox"/>	<input type="checkbox"/>
9			<input type="checkbox"/>	<input type="checkbox"/>
10			<input type="checkbox"/>	<input type="checkbox"/>

Remarks: Compare to 15-161-1.

Samples checked in by: MST3 JASON STRATER

Date: 27 May 15

Sample Custodian: MST2 BRIAN MESSING

Date: 27 MAY 15

Supervisor of Analysis: K. JUAIRE

Date: 29 MAY 15